

# IS-DG308-A Series

## 8-port Gigabit Unmanaged Layer 2 Industrial Ethernet Switch



The IS-DG308-A Series are full Gigabit unmanaged Ethernet Switches that provide easy to access, plug-n-play Gigabit ports for applications; a full Gigabit network provides higher throughput than legacy Fast Ethernet network. The cost effective IS-DG308-A Series unmanaged switches can be easily used in factory production line or embedded into machine system. The IS-DG308-A Series also support some useful function by default for network traffic optimization, such as QoS and storm protection.



### Key features

- ▶ 8 / 6 Giga Copper ports with 0 / 2 100/1000 Based SFP ports.
- ▶ Support 9K Jumbo frames
- ▶ IEEE 802.3x flow control & back-pressure
- ▶ Layer 2 Line-Speed Switching Fabric, non-blocking
- ▶ Support IEEE 802.1p TOS/Diffserv, QoS by default
- ▶ Multicast / Broadcast / Flooding Storm Control
- ▶ Wide-temperature range (-40~75°C)
- ▶ AC Power Input 100/240 VAC, 50Hz ~ 60Hz
- ▶ Support DIN-Rail or wall mount installation
- ▶ IP 30 Protection
- ▶ 2 KV surge immunity on RJ45 Copper ports
- ▶ 1.5KV Hipot
- ▶ Rugged Fanless design

### Specification

#### Ethernet

|                              |  |
|------------------------------|--|
| Operating Mode               | Store and Forward, L2 wire-speed/non-blocking switching engine |
| MAC addresses                | 8K   |
| Packet Buffer                | 4 Mbits  |
| Jumbo frame                  | 9K   |
| Backplane / Switching Fabric | 16Gbps   |

#### RJ45 Copper ports

|                          |  |
|--------------------------|--|
| Speed                    | 10/100/1000 Mbps   |
| MDI/MDIX Auto-crossover  | Support straight or cross wired cables                             |
| Auto-negotiation/Duplex  | 10/100/1000 Mbps speed auto-negotiation; Full & Half Duplex        |
| Ethernet Port Protection | 1.5KV VRMS 1minute(Hipot), 2KV surge immunity on RJ45 Copper ports |

#### Fiber Ports

|                      |  |
|----------------------|--|
| Port Types supported | 100/1000 Base SFP Slot   |
| Fiber port connector | LC/RJ45 connector for fiber ports  |
| Optimal fiber cable  | Typical 50 or 62.5/125 μm for multimode (mm)<br>Typical 8 or 9/125 μm for single mode (sm) |

#### Protocols & Standards

IEEE 802.3, IEEE 802.3x, Flow Control, Back Pressure, ICMP, TCP/UDP

#### Smart Features

|                  |  |
|------------------|--|
| QoS              | IEEE 802.1p, TOS/Diffserv                  |
| Number of Queue  | 4  |
| Storm Protection | Multicast/Broadcast/Flooding Storm Control |
| Traffic Shaper   | Port-Based Port Sharping                   |

## Power

|                     |   |
|---------------------|---|
| Power Input         | AC Power Input, IEC Connector               |
| Input Voltage Range | 100/240 VAC, 50Hz~60Hz                      |
| Power Consumption   | IS-DG308-A 7.7 Watt, IS-DG308-2F-A 8.5 Watt |

## Indicators

|                          |                    |
|--------------------------|--------------------|
| Power status indication  | Power Input status |
| Ethernet port indication | Link & speed       |

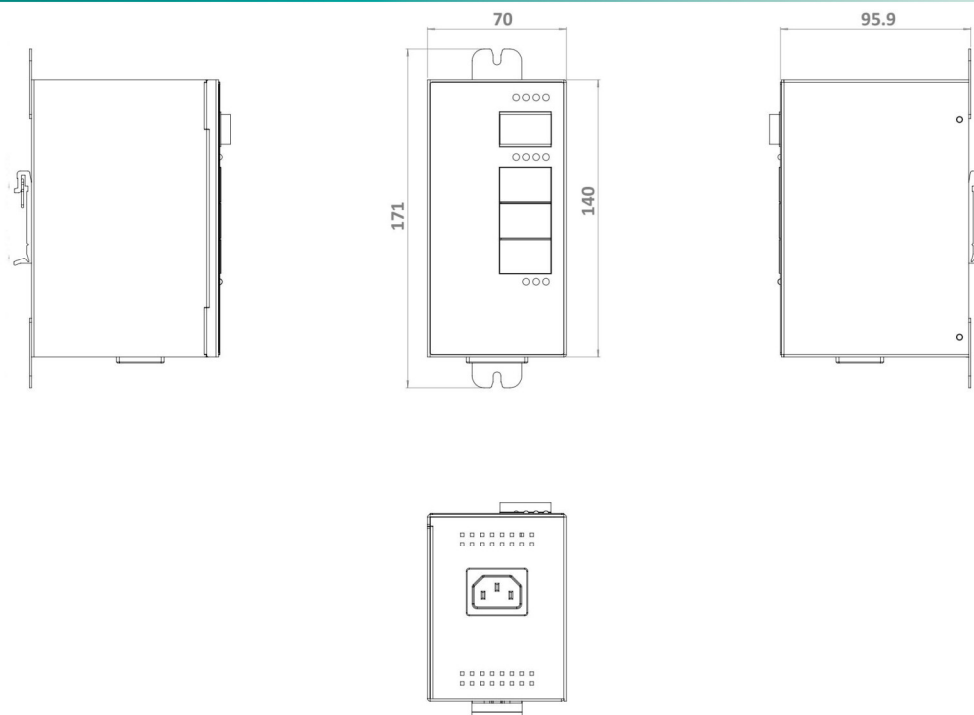
## Environmental and Compliances

|                             |  |
|-----------------------------|--|
| Operating Temperature       | -40~75°C (Cold startup at -40°C)   |
| Storage Temperature         | -40~85°C   |
| Humidity                    | 5~95% (Non-Condensing)   |
| Vibration, shock, free fall | IEC-60068-2-6, -27, -32  |
| Certification Compliance    | CE, FCC  |
| Electrical safety           | CE   |
| EMC                         | FCC Part 15, CISPR 22 (EN55022) Class A<br>IEC-61000-4-2, -3, -4, -5, -6 (Level 3) |
| RoHS & WEEE                 | RoHS (Pb free) and WEEE Compliant  |
| MTBF                        | >25 years  |

## Mechanical

|              |  |
|--------------|--|
| Protection   | IP30   |
| Dimension    | 140mm(H) x 70mm (W) x 95.9mm (D) (without DIN rail clip) |
| Weight       | 900 g  |
| Installation | DIN-Rail mounting; Wall mounting                         |

## Dimension Diagram



## Ordering Information

| Available Models | Description  | 10/100/1000Mb TX | 100/1000Mb FX |
|------------------|--|------------------|---------------|
| IS-DG308-2F-A    | Industrial 8 port Gigabit Layer 2 unmanaged Ethernet Switch, 2G SFP Slot | 6                | 2             |
| IS-DG308-A       | Industrial 8 port Gigabit Layer 2 unmanaged Ethernet Switch              | 8                |               |

## Accessories

1. 100 Mb SFP Modules
2. Gigabit SFP Modules
3. IS-RK4U 19" rack mount kit

## Package Checklist

- IS-DG308-A Switch
- Quick Installation Guide (Printed)
- Wall Mount kit / DIN-Rail kit